

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0005] with the following amended paragraph:

[0005] Figures 5 and 6 depict a sensor calibration and a sensor alignment by registration, respectively. Fig. 5 shows the measurement set-up for the calibration of a contour sensor 5. In lieu of a workpiece, a test means 6 is measured whose CAD description exists in the measuring coordinate system of sensor 5. The measured values of calibrated sensor 5 are intended to lie within a tolerance field on the intersection between test means ~~[[5]]~~6 and the measuring plane of sensor 5 which is shown with a dotted line. If this is not the case, which is shown here with a solid line, an undefined deviation between the measured test means 6 and the CAD description of test means 6 is detected. However, since the configuration of test means 6 is known, the deviation that has arisen is attributed to the fact that sensor 5 is not calibrated any more. The relationship of the coordinate systems of test means 6 and sensor 5 is no longer known sufficiently accurately.

Please replace paragraph [0044] with the following amended paragraph:

[0044] • The mean square deviation from scalar clamping errors F_i related to the expected value zero, the smallest possible error measure for a pair of corresponding spatial points

$$F = \frac{\sqrt{\sum_{i=1}^n (G_{a_i} \cdot \text{length}(D_i) \cdot \text{length}(D_i) + G_{w_i} \cdot w_i \cdot w_i)}}}{\sum_{i=1}^n (G_{a_i} + G_{w_i})}$$

$$F = \frac{\sum_{i=1}^n (G_{a_i} \cdot \text{length}(D_i) \cdot \text{length}(D_i) + G_{w_i} \cdot w_i \cdot w_i)}{\sum_{i=1}^n (G_{a_i} + G_{w_i})}$$

where n is the number of pairs for which a clamping error F_i could be determined.

Please replace [0045] with the following amended paragraph:

- [0045] • The mean deviation from the absolute values of scalar clamping errors F_i

$$F = \frac{\sum_{i=1}^n (\text{ABSOLUTE VALUE}(G_{a_i} \cdot \text{length}(D_i)) + \text{ABSOLUTE VALUE}(G_{w_i} \cdot w_i))}{\sum_{i=1}^n (G_{a_i} + G_{w_i})}$$

where n is the number of pairs for which a clamping error F_i could be determined.

- The maximum deviation from the absolute values of scalar clamping errors F_i

$$F = \text{MAXIMUM}(\text{ABSOLUTE VALUE}(F_1), (\text{ABSOLUTE VALUE}(F_2), \dots, (\text{ABSOLUTE VALUE}(F_n))$$

- The maximum positive deviation of scalar clamping errors F_i

$$F = \text{MAXIMUM}(F_1, F_2, \dots, F_n)$$

- The maximum negative deviation of scalar clamping errors F_i

$$F = \text{MINIMUM}(F_1, F_2, \dots, F_n),$$

where n is in each case the number of pairs for which a clamping error F_i could be determined.